

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529538

Luminaire Tested: **GALN-SA4D-722-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-722-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16755 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

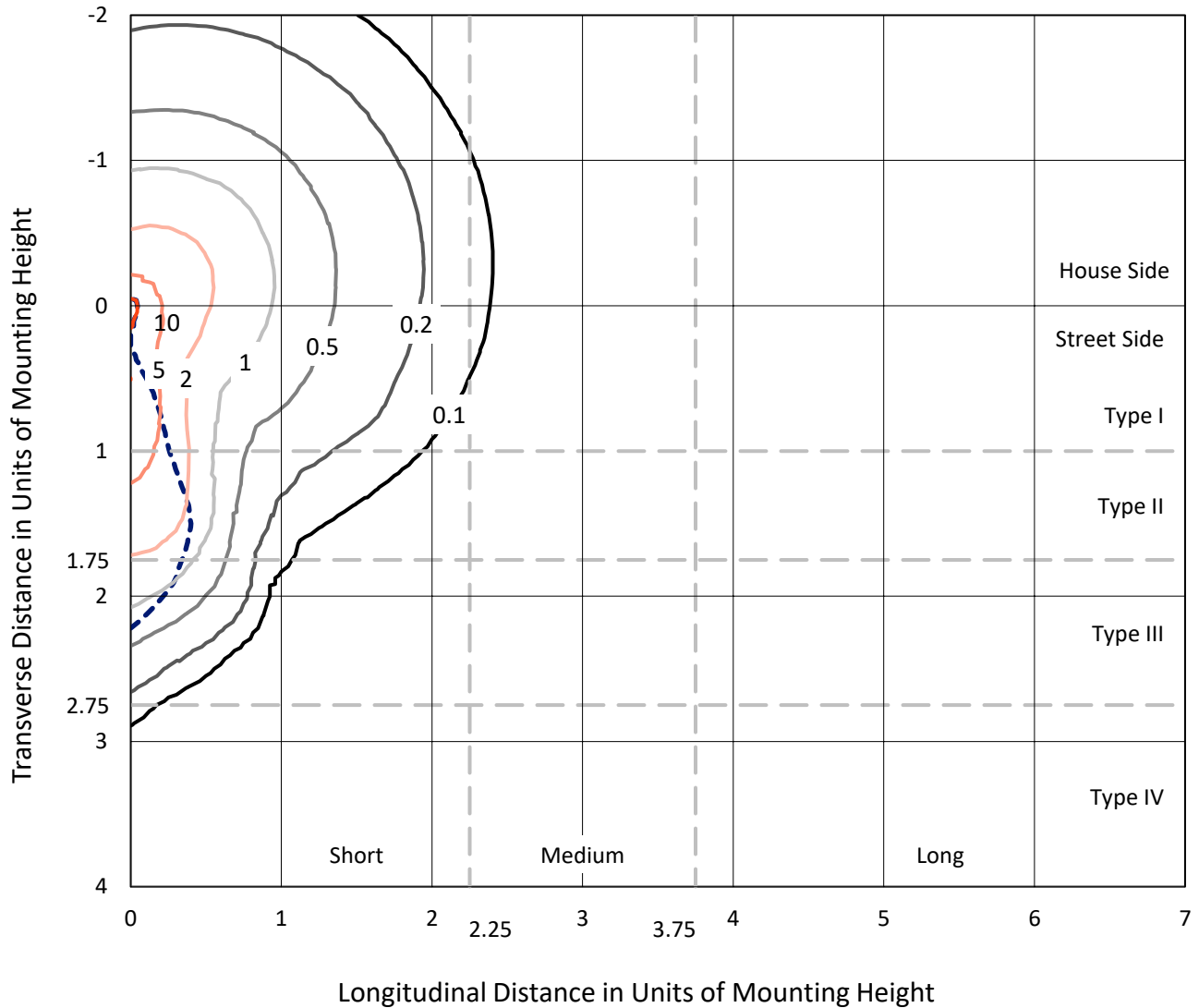
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

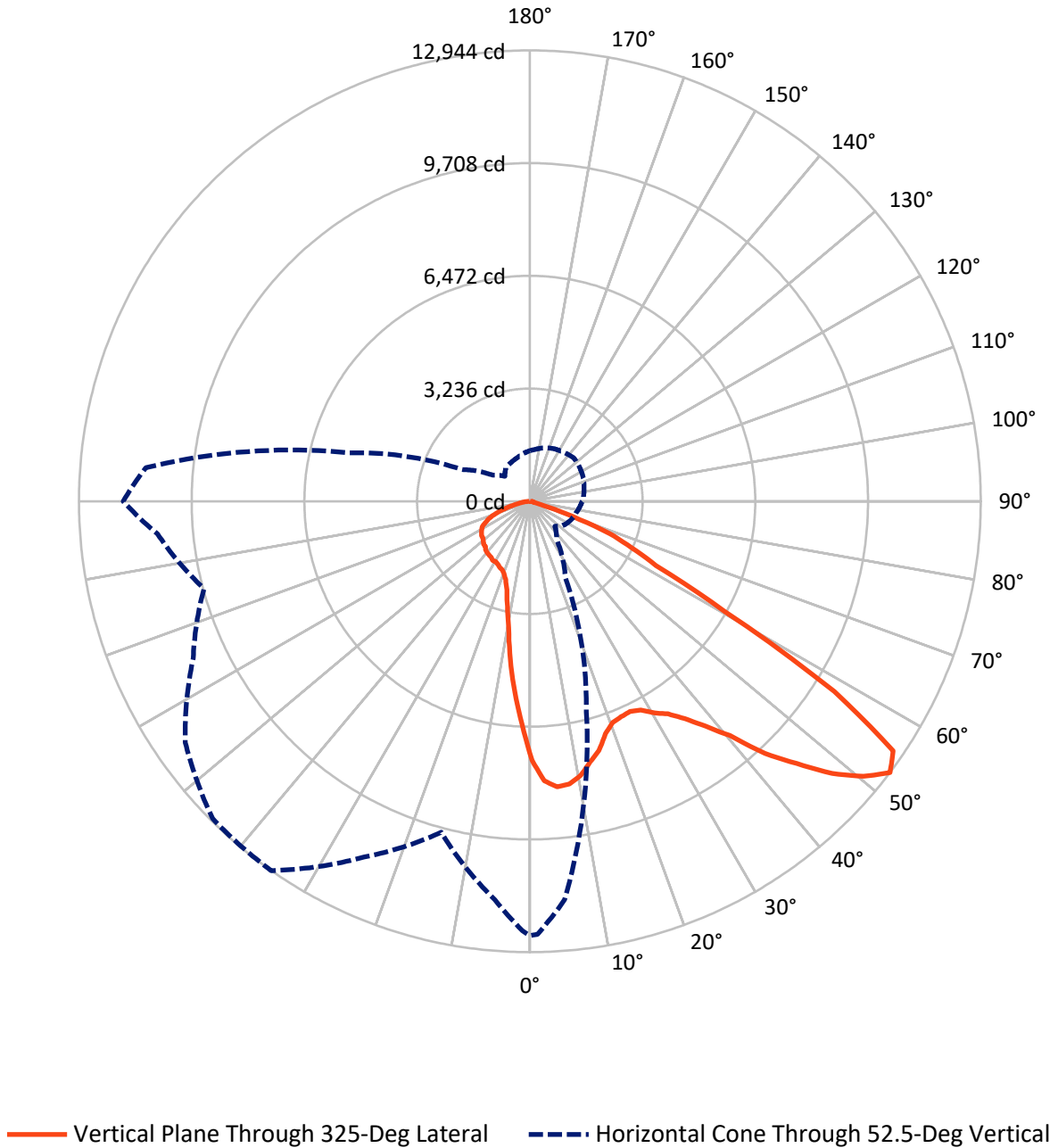
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5050.9	0.0	5050.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	11704.1	0.0	11704.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	16755.0	0.0	16755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.3	3.4
10°-20°	1229.8	7.3
20°-30°	1858.2	11.1
30°-40°	2685.1	16.0
40°-50°	3573.4	21.3
50°-60°	3997.0	23.9
60°-70°	2252.7	13.4
70°-80°	502.1	3.0
80°-90°	89.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16755.0	100.0
0°-180°	16755.0	100.0

Coefficient of Utilization



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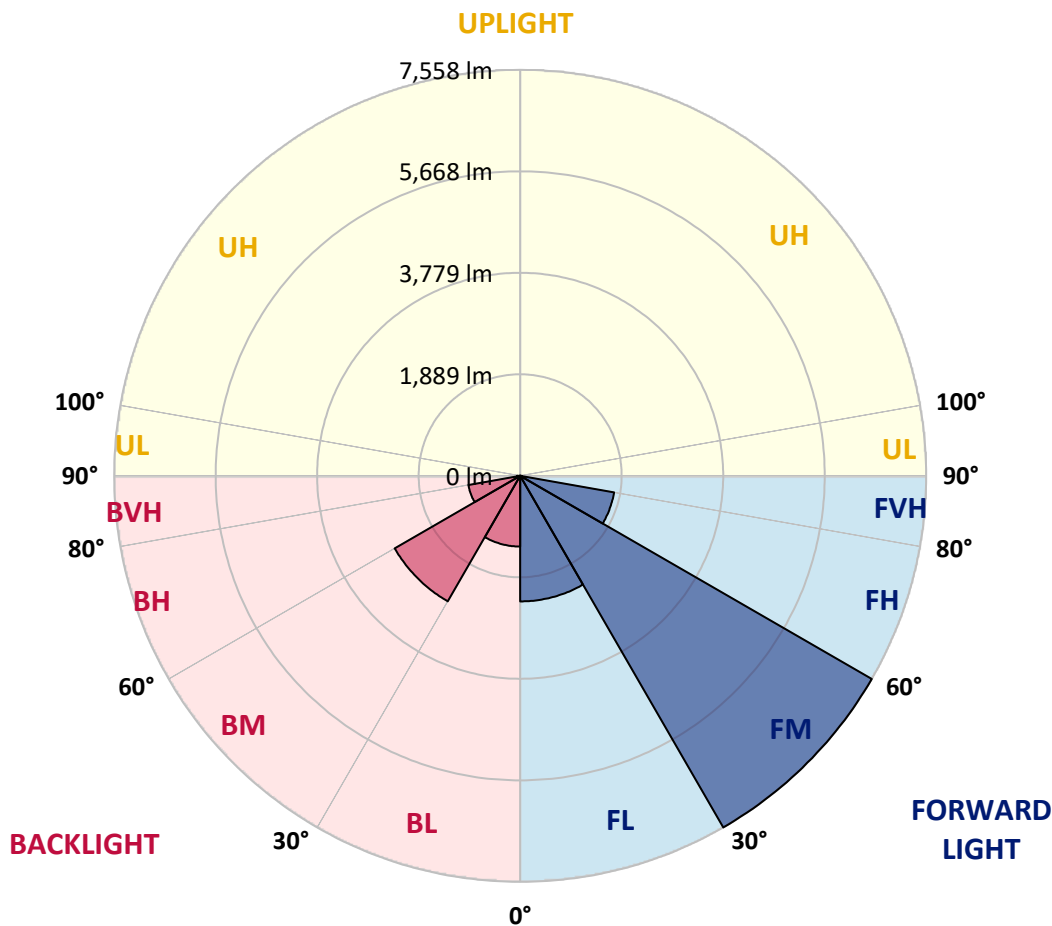
CATALOG NUMBER: GALN-SA4D-722-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.1	14.0			
FM (30°-60°)	7557.8	45.1			
FH (60°-80°)	1775.8	10.6			G1/1800
FVH (80°-90°)	32.4	0.2			G1/100
BL (0°-30°)	1317.2	7.9	B3/2500		
BM (30°-60°)	2697.7	16.1	B3/5000		
BH (60°-80°)	979.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	57.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0
2.5°	7559.8	7681.2	7550.1	7317.0	7151.8	7001.3	6843.4	6811.9	6605.4	6569.0	6418.4
5°	7130.0	7103.3	6943.0	6637.0	6299.4	5993.5	5767.6	5549.1	5400.9	5228.5	5216.4
7.5°	6607.9	6452.4	6360.2	5896.3	5478.6	4997.8	4791.4	4458.7	4354.2	4198.8	4118.7
10°	6141.6	6027.5	5811.3	5347.5	4764.7	4446.5	4225.5	4045.8	3924.4	3764.1	3562.6
12.5°	5910.9	5864.8	5621.9	4903.1	4470.8	4130.8	3975.4	3800.6	3594.1	3336.7	3237.1
15°	5952.2	5796.8	5612.2	4818.1	4220.7	3892.8	3645.1	3426.6	3161.9	2916.6	2773.3
17.5°	6260.6	6141.6	5772.5	4871.5	4126.0	3652.4	3203.2	2880.2	2642.2	2421.2	2321.6
20°	6867.7	6695.3	6280.0	4939.5	3922.0	3317.3	2802.5	2404.2	2149.2	2032.6	1998.6
22.5°	7540.4	7438.4	6775.4	5092.5	3759.3	3006.4	2377.5	1979.2	1884.5	1852.9	1916.1
25°	8358.8	8094.1	7545.3	5342.6	3633.0	2741.7	2018.1	1797.1	1748.5	1780.1	1852.9
27.5°	8980.5	8910.1	8084.4	5578.2	3460.6	2423.6	1816.5	1670.8	1685.4	1716.9	1784.9
30°	9718.7	9361.7	8606.5	5740.9	3305.1	2205.0	1675.6	1636.8	1651.4	1704.8	1738.8
32.5°	10163.1	10029.6	8934.3	5986.2	3125.4	2015.6	1566.4	1529.9	1551.8	1631.9	1712.1
35°	10729.0	10464.3	9339.9	6049.3	2999.2	1940.3	1488.7	1461.9	1512.9	1568.8	1658.6
37.5°	11389.5	11207.4	9900.9	6005.6	2931.2	1862.6	1423.1	1410.9	1447.4	1525.1	1629.5
40°	11780.5	11724.6	10194.7	6032.3	2824.3	1794.6	1347.8	1362.4	1437.7	1498.4	1600.4
42.5°	12156.9	11792.6	10629.4	6022.6	2756.3	1702.4	1355.1	1338.1	1396.4	1466.8	1563.9
45°	12239.5	11877.6	10731.4	5954.6	2673.7	1612.5	1299.2	1306.5	1376.9	1464.4	1527.5
47.5°	12186.1	11918.9	10920.8	5935.2	2596.0	1549.4	1216.7	1304.1	1345.4	1415.8	1505.7
50°	12149.6	12135.1	11081.1	6027.5	2491.6	1449.8	1117.1	1272.5	1313.8	1384.2	1481.4
52.5°	12470.2	12438.6	11481.8	6270.3	2409.0	1342.9	1015.1	1192.4	1291.9	1359.9	1454.7
55°	12664.5	12526.0	12169.1	6569.0	2270.6	1202.1	944.7	1092.8	1238.5	1299.2	1396.4
57.5°	11391.9	11297.2	11008.2	6131.9	2037.5	1017.5	857.2	990.8	1165.7	1260.4	1359.9
60°	9478.3	9330.2	8589.5	5211.5	1503.2	791.7	803.8	910.7	1146.2	1182.7	1299.2
62.5°	8936.8	8570.1	7562.3	4194.0	1153.5	680.0	721.3	837.8	1044.2	1105.0	1221.5
65°	7091.1	6819.1	5410.6	3028.3	772.3	590.1	658.1	755.3	901.0	1020.0	1126.8
67.5°	4439.2	4179.4	2887.4	1432.8	539.1	505.1	587.7	689.7	808.7	915.5	1034.5
70°	2319.2	2035.1	1333.2	517.3	371.6	412.8	490.6	587.7	704.3	791.7	884.0
72.5°	864.5	701.8	434.7	223.4	257.4	315.7	398.3	468.7	551.3	658.1	709.1
75°	133.6	114.1	111.7	136.0	174.8	228.3	284.1	354.6	427.4	495.4	529.4
77.5°	63.1	60.7	68.0	89.9	116.6	162.7	206.4	274.4	332.7	376.4	395.8
80°	41.3	38.9	43.7	60.7	87.4	121.4	165.1	211.3	264.7	301.1	296.3
82.5°	24.3	26.7	26.7	41.3	60.7	87.4	119.0	160.3	196.7	228.3	208.8
85°	14.6	12.1	12.1	24.3	41.3	70.4	99.6	68.0	70.4	70.4	80.1
87.5°	4.9	4.9	4.9	2.4	4.9	4.9	7.3	12.1	14.6	17.0	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0
2.5°	6413.6	6488.9	6462.2	6367.4	6440.3	6452.4	6403.9	6571.4	6603.0	6552.0	6566.6
5°	5199.4	5218.8	5262.5	5354.8	5420.3	5498.1	5498.1	5502.9	5437.3	5602.5	5553.9
7.5°	4050.7	4062.8	4113.8	4310.5	4366.4	4514.5	4577.7	4534.0	4402.8	4347.0	4393.1
10°	3497.0	3426.6	3409.6	3433.9	3560.1	3623.3	3676.7	3662.1	3640.3	3596.6	3548.0
12.5°	3127.9	3076.9	3035.6	2977.3	2984.6	3045.3	3086.6	3052.6	3062.3	3072.0	3086.6
15°	2727.2	2690.7	2668.9	2581.5	2571.7	2613.0	2627.6	2647.0	2683.5	2685.9	2668.9
17.5°	2302.2	2270.6	2319.2	2367.8	2333.8	2336.2	2362.9	2379.9	2370.2	2326.5	2304.6
20°	2010.8	2044.8	2093.3	2139.5	2175.9	2197.8	2207.5	2180.8	2149.2	2059.3	2056.9
22.5°	1925.8	1969.5	2010.8	2081.2	2115.2	2171.1	2120.1	2059.3	2015.6	1971.9	1920.9
25°	1862.6	1899.1	1981.6	2008.3	2073.9	2120.1	2083.6	2022.9	1947.6	1884.5	1845.6
27.5°	1816.5	1857.8	1911.2	1984.1	2035.1	2061.8	2025.3	2001.1	1923.3	1848.1	1792.2
30°	1787.4	1831.1	1928.2	1988.9	2032.6	2054.5	1991.3	1962.2	1906.3	1843.2	1794.6
32.5°	1767.9	1806.8	1889.3	1967.1	1996.2	1996.2	2005.9	1971.9	1894.2	1787.4	1746.1
35°	1704.8	1758.2	1826.2	1916.1	1969.5	2001.1	1952.5	1913.6	1862.6	1753.4	1678.1
37.5°	1668.4	1704.8	1792.2	1877.2	1923.3	1957.3	1937.9	1869.9	1801.9	1712.1	1651.4
40°	1629.5	1687.8	1765.5	1845.6	1896.6	1930.6	1916.1	1835.9	1753.4	1668.4	1627.1
42.5°	1602.8	1641.6	1721.8	1811.6	1872.3	1937.9	1894.2	1794.6	1736.4	1619.8	1573.6
45°	1580.9	1644.1	1729.1	1765.5	1828.6	1896.6	1818.9	1758.2	1690.2	1605.2	1566.4
47.5°	1554.2	1612.5	1668.4	1765.5	1794.6	1826.2	1811.6	1714.5	1656.2	1563.9	1537.2
50°	1544.5	1566.4	1668.4	1721.8	1763.1	1794.6	1755.8	1682.9	1627.1	1532.4	1474.1
52.5°	1505.7	1546.9	1612.5	1682.9	1733.9	1772.8	1709.6	1663.5	1588.2	1488.7	1452.2
55°	1457.1	1481.4	1597.9	1670.8	1697.5	1724.2	1699.9	1624.6	1546.9	1444.9	1408.5
57.5°	1393.9	1449.8	1544.5	1646.5	1680.5	1695.1	1656.2	1595.5	1498.4	1408.5	1350.2
60°	1328.4	1386.7	1491.1	1573.6	1607.6	1661.1	1602.8	1566.4	1454.7	1355.1	1291.9
62.5°	1262.8	1328.4	1406.1	1510.5	1539.6	1561.5	1546.9	1495.9	1406.1	1294.4	1216.7
65°	1185.1	1233.7	1330.8	1384.2	1403.7	1454.7	1403.7	1384.2	1304.1	1197.2	1131.7
67.5°	1068.5	1109.8	1194.8	1245.8	1260.4	1282.2	1279.8	1257.9	1168.1	1095.2	1037.0
70°	935.0	971.4	1024.8	1085.5	1092.8	1119.5	1095.2	1090.4	1032.1	932.5	901.0
72.5°	750.4	784.4	854.8	881.5	884.0	893.7	881.5	864.5	850.0	745.5	714.0
75°	575.5	595.0	629.0	653.3	653.3	665.4	658.1	641.1	602.3	536.7	505.1
77.5°	400.7	420.1	463.8	478.4	476.0	480.8	459.0	442.0	383.7	349.7	323.0
80°	291.4	303.6	325.4	335.1	337.6	344.8	318.1	303.6	269.6	230.7	218.6
82.5°	211.3	218.6	221.0	233.1	233.1	221.0	213.7	199.1	174.8	150.6	140.9
85°	87.4	89.9	92.3	106.9	109.3	131.1	121.4	114.1	99.6	85.0	77.7
87.5°	21.9	24.3	31.6	26.7	31.6	31.6	34.0	38.9	38.9	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0
2.5°	6622.4	6641.9	6889.6	6921.1	7042.6	7166.4	7416.5	7596.3	7742.0	7836.7	7863.4
5°	5604.9	5728.8	5842.9	6027.5	6195.0	6433.0	6707.4	7047.4	7474.8	7693.4	7780.8
7.5°	4388.2	4534.0	4699.1	4878.8	5124.1	5551.5	5918.2	6311.6	6858.0	7083.8	7426.3
10°	3582.0	3744.7	3963.3	4101.7	4398.0	4805.9	5233.4	5687.5	6209.6	6535.0	6930.9
12.5°	3166.7	3300.3	3501.9	3793.3	4014.3	4279.0	4597.1	5170.2	5918.2	6226.6	6498.6
15°	2707.7	2855.9	3089.0	3412.0	3676.7	3992.4	4349.4	4973.5	5770.0	6246.0	6476.7
17.5°	2328.9	2435.8	2681.0	2960.3	3263.9	3608.7	4121.1	4963.8	5925.5	6535.0	6911.4
20°	2066.6	2081.2	2214.8	2452.8	2865.6	3314.9	3980.3	4915.2	6423.3	7032.8	7508.8
22.5°	1901.5	1886.9	1889.3	2090.9	2379.9	3025.9	3759.3	5080.4	6989.1	7824.5	8145.1
25°	1818.9	1780.1	1755.8	1799.5	2061.8	2683.5	3591.7	5298.9	7598.7	8477.8	8871.2
27.5°	1775.2	1707.2	1658.6	1665.9	1857.8	2511.0	3487.3	5393.6	8203.4	9388.5	9526.9
30°	1758.2	1673.2	1602.8	1578.5	1704.8	2270.6	3263.9	5556.3	8744.9	9888.7	10007.7
32.5°	1697.5	1593.1	1525.1	1503.2	1554.2	2059.3	3103.6	5672.9	9223.3	10432.7	10391.4
35°	1627.1	1539.6	1454.7	1413.4	1449.8	1923.3	2974.9	5617.0	9786.7	10855.3	10833.4
37.5°	1619.8	1505.7	1435.2	1367.2	1364.8	1755.8	2800.0	5670.5	10146.1	11612.9	11314.2
40°	1556.6	1483.8	1391.5	1335.7	1304.1	1670.8	2630.0	5544.2	10673.1	11918.9	11625.1
42.5°	1559.1	1449.8	1369.7	1304.1	1272.5	1546.9	2513.5	5510.2	10857.7	12416.8	11770.8
45°	1520.2	1413.4	1345.4	1267.7	1250.7	1452.2	2401.8	5352.3	11183.1	12441.0	11588.7
47.5°	1481.4	1386.7	1313.8	1221.5	1182.7	1418.2	2314.3	5221.2	11013.1	12212.8	11336.1
50°	1454.7	1345.4	1277.4	1211.8	1102.5	1359.9	2200.2	5189.6	10775.1	11904.4	10867.4
52.5°	1408.5	1311.4	1240.9	1189.9	1015.1	1306.5	2156.5	5374.2	11066.5	11673.7	10731.4
55°	1364.8	1265.2	1175.4	1075.8	942.2	1165.7	2035.1	5546.6	11491.5	12205.5	11348.2
57.5°	1318.7	1223.9	1126.8	1007.8	871.8	1020.0	1908.8	5578.2	10695.0	11280.2	10772.7
60°	1257.9	1136.5	1063.7	908.2	796.5	845.1	1512.9	4917.6	8295.6	9420.0	9437.0
62.5°	1189.9	1058.8	995.7	813.5	718.8	728.5	1233.7	4133.3	6729.3	7797.8	8261.7
65°	1100.1	973.8	898.5	752.8	663.0	631.4	903.4	3028.3	5111.9	6326.2	6853.1
67.5°	983.5	864.5	769.8	655.7	592.5	541.5	616.8	1704.8	3018.6	4247.4	4407.7
70°	859.7	757.7	658.1	563.4	493.0	456.6	451.7	755.3	1442.5	2285.2	2600.9
72.5°	677.5	604.7	524.5	454.1	408.0	354.6	323.0	313.3	488.1	930.1	1284.7
75°	485.7	425.0	378.8	332.7	298.7	269.6	245.3	223.4	204.0	233.1	320.6
77.5°	306.0	284.1	247.7	235.6	216.1	208.8	199.1	187.0	172.4	162.7	162.7
80°	206.4	191.8	179.7	177.3	170.0	167.6	170.0	157.9	143.3	131.1	136.0
82.5°	138.4	136.0	133.6	131.1	133.6	136.0	140.9	138.4	126.3	119.0	121.4
85°	82.6	87.4	92.3	97.1	106.9	94.7	77.7	65.6	58.3	53.4	51.0
87.5°	31.6	43.7	38.9	36.4	38.9	36.4	34.0	31.6	26.7	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529538

CATALOG NUMBER: GALN-SA4D-722-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0	7436.0
2.5°	8040.7	8089.2	8130.5	8120.8	8035.8	7921.7	7875.5	7640.0	7591.4	7559.8
5°	8149.9	8431.6	8492.4	8455.9	8234.9	7955.7	7683.7	7338.8	7137.3	7130.0
7.5°	7948.4	8295.6	8404.9	8487.5	8193.7	7708.0	7241.7	6724.4	6598.2	6607.9
10°	7436.0	7989.7	8259.2	8344.2	8006.7	7586.5	6940.6	6416.0	6146.5	6141.6
12.5°	7151.8	7586.5	7661.8	7780.8	7681.2	7256.3	6765.7	6178.0	5915.8	5910.9
15°	6899.3	7185.8	7207.7	7375.3	7428.7	7142.1	6811.9	6185.3	5974.0	5952.2
17.5°	7120.3	6921.1	6838.6	6860.4	7018.3	7122.7	7079.0	6598.2	6382.0	6260.6
20°	7268.4	6824.0	6573.9	6598.2	6785.1	7166.4	7477.3	7195.6	6853.1	6867.7
22.5°	7664.2	6838.6	6447.6	6420.9	6717.1	7394.7	7926.5	7950.8	7620.5	7540.4
25°	8256.8	7006.1	6408.7	6401.4	6685.6	7640.0	8451.1	8844.5	8506.9	8358.8
27.5°	8732.8	7268.4	6530.2	6554.4	6785.1	7839.1	8897.9	9420.0	9162.6	8980.5
30°	9150.5	7540.4	6700.1	6588.4	7052.3	7943.5	9089.8	10075.7	9869.3	9718.7
32.5°	9322.9	7926.5	6969.7	6785.1	7273.3	8069.8	9488.0	10712.0	10534.7	10163.1
35°	9614.3	8142.7	7115.4	7100.8	7659.4	8373.4	9675.0	11132.1	11059.2	10729.0
37.5°	9847.4	8361.2	7632.7	7472.4	8188.8	8883.3	9976.2	11712.5	11544.9	11389.5
40°	10027.1	8752.2	8115.9	8327.2	8839.6	9347.2	10253.0	11748.9	12232.2	11780.5
42.5°	9862.0	9101.9	8910.1	9415.2	9900.9	9876.6	10284.6	12030.6	12392.5	12156.9
45°	9820.7	9694.4	10165.6	10624.6	10736.3	10316.1	10058.7	11719.8	12343.9	12239.5
47.5°	9721.2	10277.3	11098.1	11846.1	11676.1	10610.0	9789.2	11663.9	12373.0	12186.1
50°	9687.2	10403.6	11787.8	12516.3	12414.3	10865.0	9662.9	11304.5	12166.6	12149.6
52.5°	9684.7	10663.4	12074.3	12880.6	12943.7	11268.1	9835.3	11486.7	12326.9	12470.2
55°	9794.0	10580.8	12037.9	12679.0	12654.8	11088.4	9854.7	11608.1	12523.6	12664.5
57.5°	9237.9	9478.3	9934.9	10442.4	10311.3	9184.5	8800.8	10731.4	11493.9	11391.9
60°	7977.5	7224.7	6709.9	6685.6	6430.6	6078.5	7202.8	9577.9	9577.9	9478.3
62.5°	6986.7	4742.8	4075.0	3885.6	4067.7	4473.2	6947.8	9315.6	9050.9	8936.8
65°	6110.0	3620.8	2945.7	2892.3	3208.0	3820.0	6282.4	7936.2	7470.0	7091.1
67.5°	3931.7	2651.9	2190.5	2095.8	2477.0	2804.9	4181.8	4881.2	4587.4	4439.2
70°	2535.3	1726.6	1219.1	1143.8	1291.9	1729.1	2671.3	2846.2	2418.8	2319.2
72.5°	1199.7	745.5	427.4	352.1	395.8	660.5	1056.4	1136.5	944.7	864.5
75°	381.3	274.4	174.8	150.6	143.3	170.0	242.8	187.0	136.0	133.6
77.5°	170.0	162.7	138.4	116.6	102.0	85.0	70.4	58.3	60.7	63.1
80°	140.9	128.7	114.1	102.0	85.0	65.6	51.0	38.9	38.9	41.3
82.5°	123.9	111.7	99.6	85.0	72.9	53.4	38.9	26.7	24.3	24.3
85°	53.4	63.1	68.0	72.9	58.3	43.7	26.7	17.0	14.6	14.6
87.5°	21.9	19.4	17.0	14.6	12.1	12.1	9.7	7.3	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)